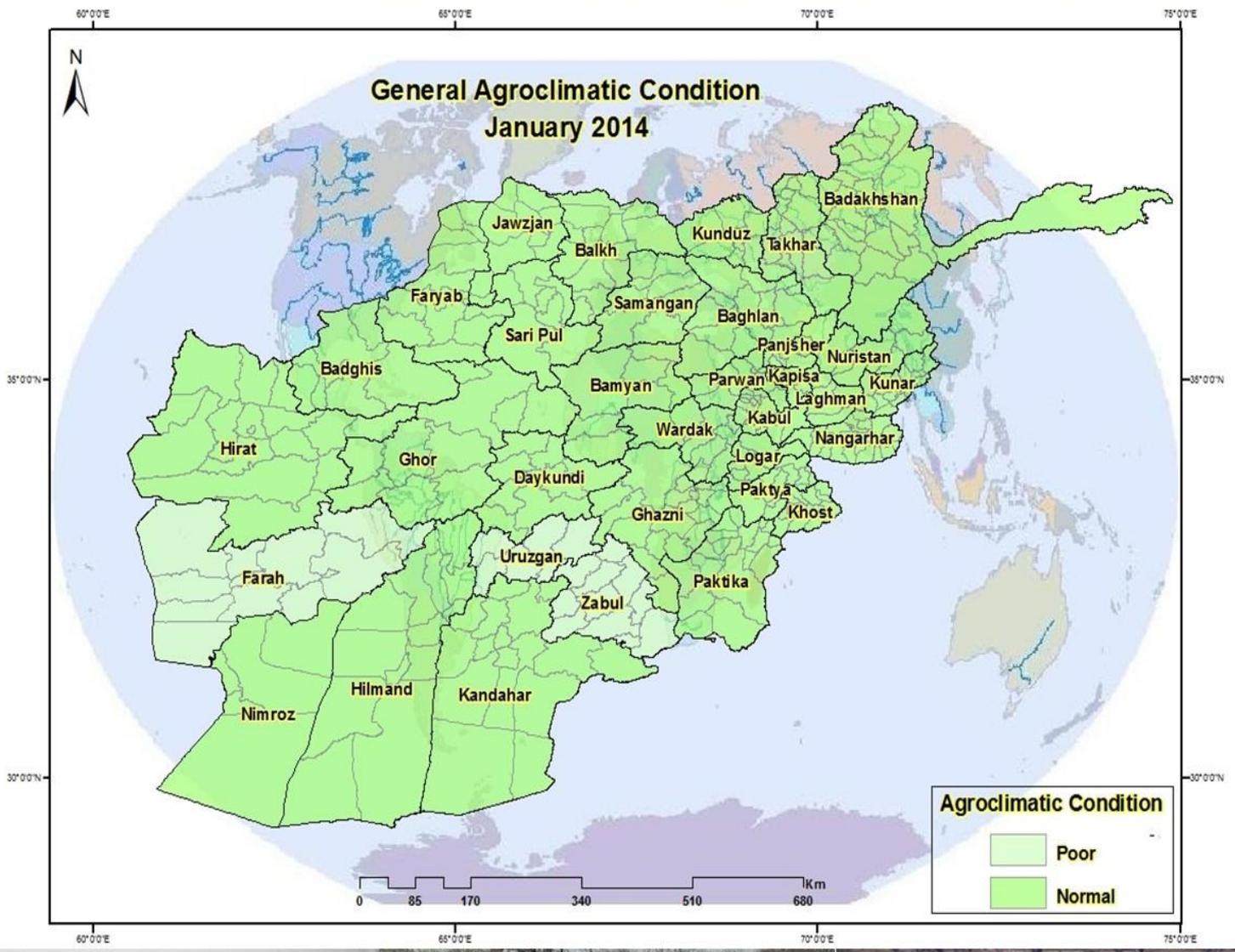




Issue No: 107
January: 2014

The Afghanistan Agrometeorological Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



Snow

1



Crop Condition

2



Crop Stage

3



The Agromet Project of USGS, is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project and United States Geological Survey (USGS).

Summary

Comparison of monthly precipitation data for the month of January 2014, in contrast to the same month of January 2013, shows significant decrease of precipitation in most of the areas aside from some areas of Southern and North western regions during the month of January 2014, compare to the same month of last year.

Comparison of snow extent for the period of January 2014 with the same period in 2013 shows significant decrease in snow extent during the above mentioned period of time over the same period of time in 2013.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Dormancy		
		Paghman	Paghman	Emergence	Normal	Poor Rainfall
		Kabul	Darulaman	Dormancy		
		Surubi	Surubi	Vegetative	Normal	Not Existed
	Panjsher	Dara	Dara	Dormancy		
		Dashtak	Dashtak	Dormancy		
	Parwan	Syagerd	Gorband	Emergence	Good	Not Existed
		Charikar	Charikar	Emergence	Normal	Not Existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Dormancy		
		Kohistan	Kohistan			
	Wardak	Maidan shehr	Maidan shehr			
		Sayed Abad	Sayed Abad			
	Logar	Pole Alam	Pole Alam			
	Bamyan	Bamyan	Bamyan			
		Yakawlang	Yakawlang	Emergence	Normal	Not Existed
		Panjab	Panjab	Dormancy		
		Shebar	Shebar	Dormancy		
		Kohmard	Kohmard	Emergence	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	Dormancy		
		Muqar	Muqar			
Dikondy	Dasht	Nili				
	Khideer	Khideer				
East	Nangarhar	Agam	Agam	Vegetative	Normal	Not Existed
		Batikot	Ghaziabad	Vegetative	Normal	Not Existed
		Jalalabad	Farm jaded	Vegetative	Normal	Not Existed

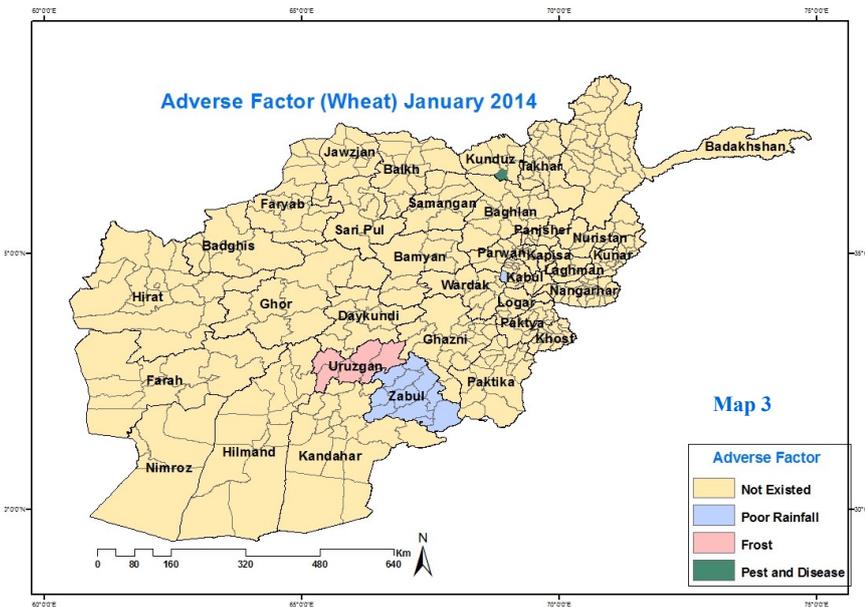
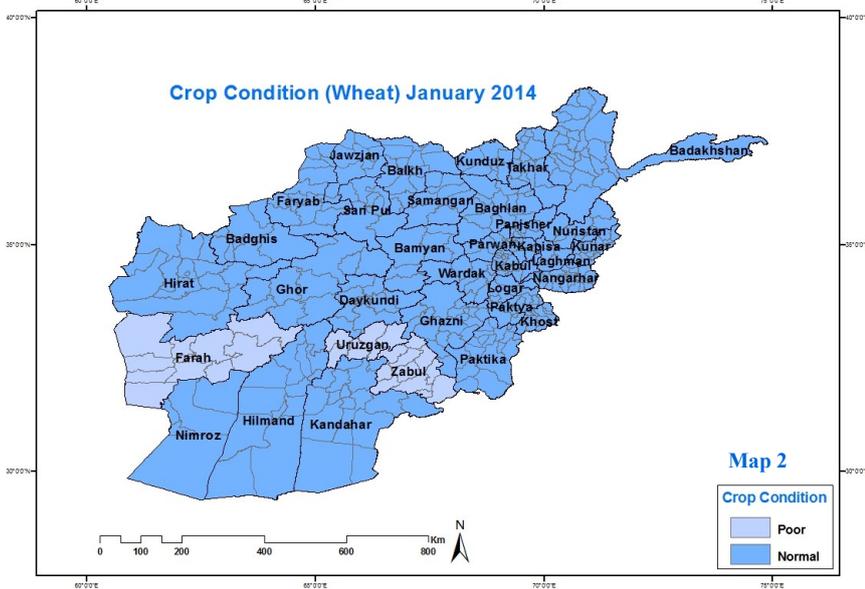
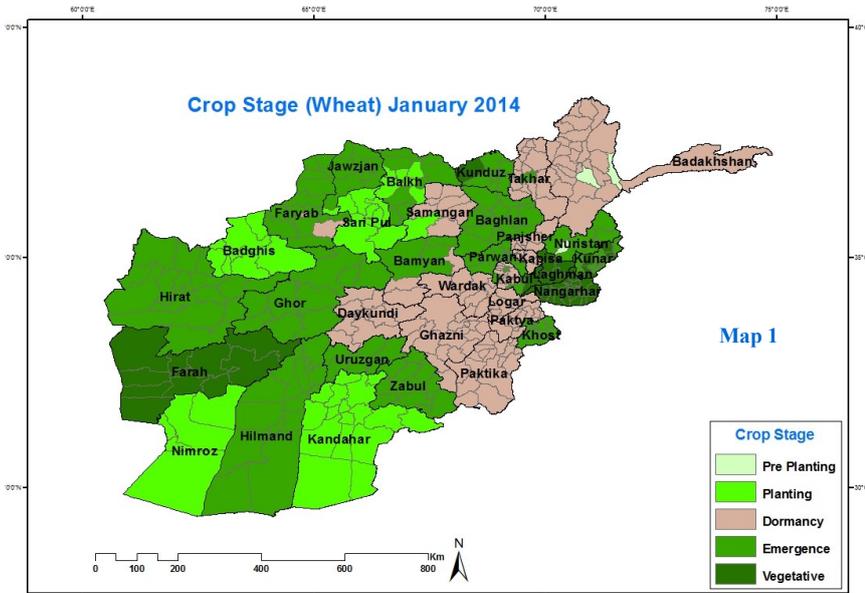
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Emergence	Normal	Not Existed
		Asad Abad	Asad Abad	Vegetative	Normal	Not Existed
		Chawkay	Chawkay	Vegetative	Normal	Not Existed
	Laghman	Mihtarlam	Mihtarlam	Vegetative	Normal	Not Existed
		Qarghay	Qarghay	Vegetative	Normal	Not Existed
		Alengar	Alengar	Vegetative	Normal	Not Existed
	Noristan	Paroon	Paroon	Dormancy		
		Do Ab	Do Ab	Pre-Planting		
		Norgaram	Norgaram	Emergence	Normal	Not Existed
		Waigal	Waigal	Emergence	Normal	Not Existed
North East	Takhar	Taluqan	Taluqan	Emergence	Normal	Not Existed
		Rostaq	Rostaq	Dormancy		
		Aqmasjad	Aqmasjad			
	Kunduz	Imam Sahib	Imam Sahib	Emergence	Good	Not Existed
		Qaliazal	Aqtipa	Vegetative	Normal	Not Existed
		Khan Abad	Khan Abad	Emergence	Normal	Not Existed
		Kunduz	Kunduz	Emergence	Good	Not Existed
		Archi	Archi	Emergence	Normal	Not Existed
		Chardara	Chardara	Emergence	Normal	Not Existed
		Ali Abad	Ali Abad	Emergence	Normal	Pest and Disease
	Baghlan	Pulikhomri	Pozaishan	Emergence	Normal	Not Existed
		Doshy	Doshy	Emergence	Normal	Not Existed
	Badakhshan	Eshkashm	Eshkashm	Pre-Planting	Normal	Not Existed
		Baharak	Baharak	Dormancy		
		Argo	Argo			
		Khash	Khash			
Faiz Abad		Faiz Abad				
South East	Khost	Khost	Khost	Emergence	Normal	Not Existed
		Khost	Shimal	Emergence	Normal	Not Existed
		Ali Sher	Ali Sher	Emergence	Normal	Not Existed
	Paktia	Zormat	Rohani Baba	Dormancy		
		Gardiz	Tera			
	Paktika	Urgon	Urgon			
		Sharana	Sharana			
		Khair kot	Khair Kot			

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Planting		
	Kandahar	Kandahar	Kandahar	Planting	Normal	Not Existed
		Kohkaran	Kohkaran	Emergence	Normal	Not Existed
	Zabul	Qalat	Qalat	Emergence	Poor	Poor Rainfall
	Urozgan	Tirin Kot	Tirin Kot	Emergence	Poor	Frost
	Hilmand	Nad Ali	Nad Ali	Emergence	Normal	Not Existed
		Greshk	Greshk	Emergence	Normal	Not Existed
		Nawa	Nawa	Emergence	Normal	Not Existed
Lashkargah		Bolan	Emergence	Normal	Not Existed	
North	Balkh	Takhta pol	Dihdadi	Planting	Normal	Not Existed
		Mazar shareef	Mazare shareef	Dormancy		
		Nahrishahi	Nahrishahi	Planting		
		Dawlat Abad	Dawlat Abad	Emergence	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Emergence	Normal	Not Existed
		Darzab	Darzab	Planting		
		Aqcha	Aqcha	Emergence	Normal	Not Existed
	Saripul	Sancharak	Sancharak	Planting		
		Sozmaqala	Sozmaqala	Planting	Normal	Not Existed
	Faryab	Andkhoy	Andkhoy	Emergence	Normal	Not Existed
		Garzewan	Garzewan	Dormancy		
	Samangan	Aibak	Aibak			
		Sarbagh	Sarbagh			
		Dara Souf	Dara Souf	Planting		
	North West	Badghis	Maqur	Maqur	Planting	Normal
Qalainow			Qalainow	Planting	Normal	Not Existed
Ghor		Chaghcharan	Chaghcharan	Emergence	Normal	Not Existed
		Dawlat yar	Dawlat yar	Emergence	Normal	Not Existed
Hirat		Shindand	Shindand	Emergence	Normal	Not Existed
		Hirat	Hirat	Emergence	Normal	Not Existed
		Zindajan	Zindajan	Emergence	Normal	Not Existed
		Gwazara	Falahat	Emergence	Normal	Not Existed
		Hirat	Farm Urdokhan	Emergence	Normal	Not Existed
Farah		Farah	Farah	Vegetative	Poor	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

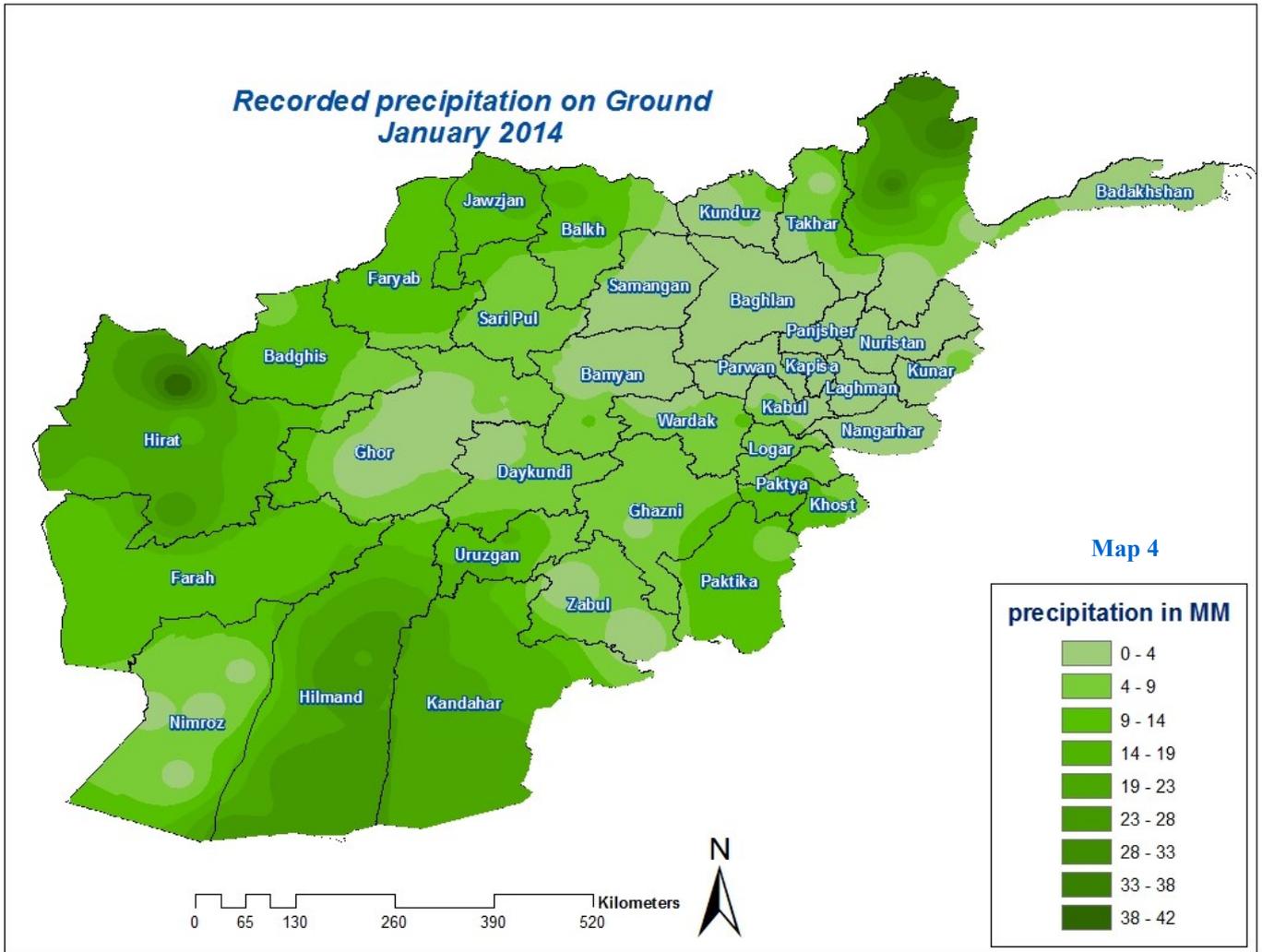
Precipitation

Comparison of monthly precipitation data for the month of January 2014, in contrast to the same month of January 2013, shows significant decrease of precipitation in most of the areas aside from some areas of Southern and North western regions during the month of January 2014, compare to the same month of last year.

Comparison of monthly precipitation data for the month of January 2014 in contrast to the same month of

of precipitation in entire country during the month of January 2014 compare to the same month of Long Term Average.

Fairly widespread precipitation occurred during the month of January 2014, as Map (4) Shows the distribution of precipitation during the month of January 2014, in the entire country as the highest precipitation has occurred in Faizabad center of Badakhshan province which was 37.5mm.



Precipitation

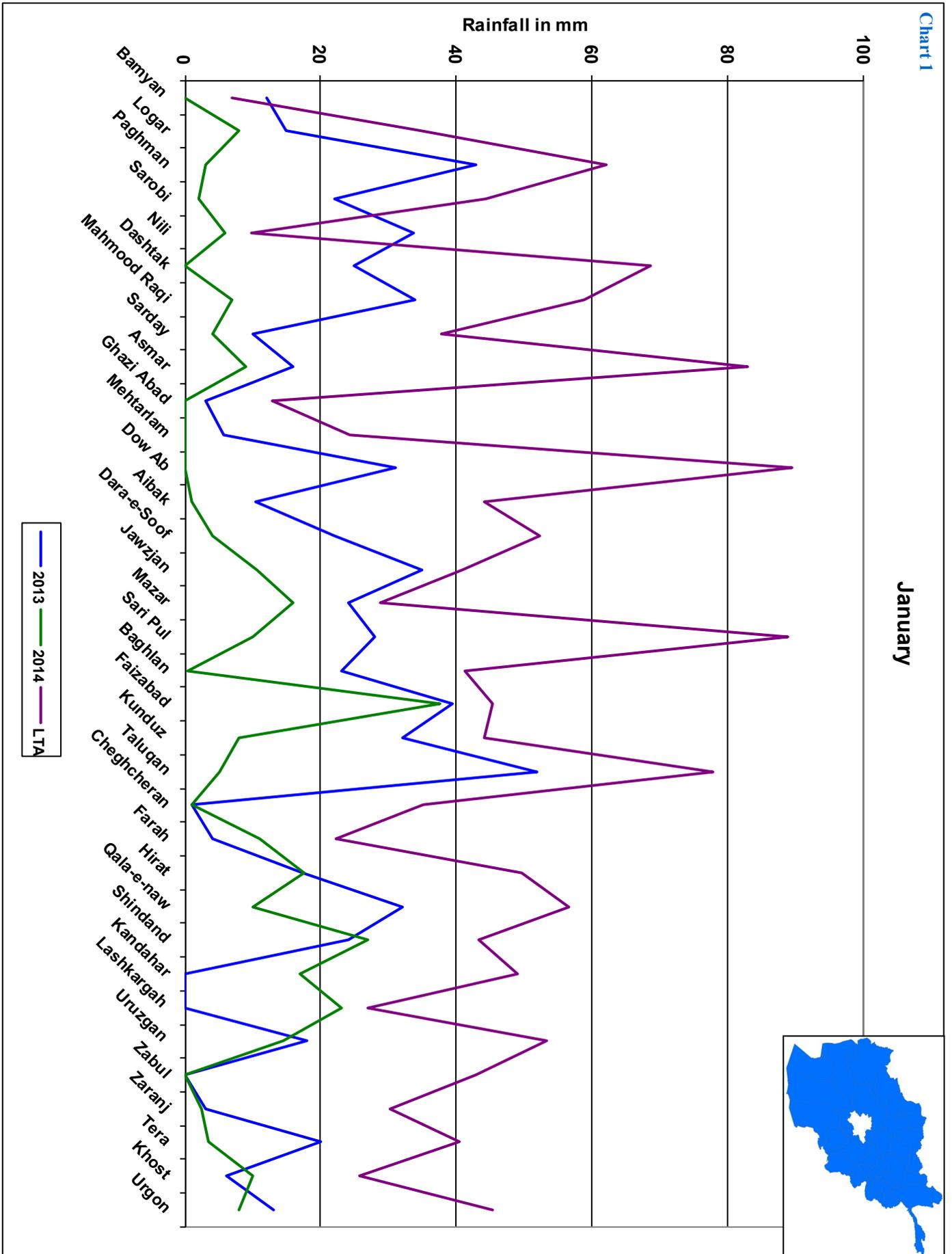
January 2014 was not a good month in terms of precipitation in the country, expectation for more rainfall was very high, but unfortunately we did not experienced widespread rainfall in the entire country during this month. As table 1 shows, during the month of January 2014 in central part to the country Bamyan has received 0 mm, Logar 8 mm, Paghman 3 mm, Sarobi 2mm, Nili 6 mm, Dashtak 0 mm and Mahmood Raqi 7 mm of precipitation .The highest precipitation has been recorded in Logar province which is 8 mm. In Eastern region Asmar has received 9 mm, Ghazi Abad 0 mm, Mehtarlam 0 mm, and Dow Ab 0 mm. The highest precipitation in this regain has been recorded in Asmar center of Kunar province which is 9 mm. In Northern region Aibak has received 1 mm, Dara-e-Soof 4 mm, Jawzan 10.7 mm, Mazar 16 mm, and Sari Pul 10 mm, the highest precipitation in this regain has been recorded in Mazar – i – Sharif Center of Balkh province which is 16 mm. In North Eastern region Baghlan has received 0.4 mm, Faizabad 37.5 mm, Taluqan 5 mm, and Kunduz 8 mm,

the highest precipitation in the North Eastern region has been recorded in Faizabad center of Badakhshan province which is 37.5 mm. In Southern region Kandahar has received 17 mm, Lashkargah 23 mm, Uruzgan 14.5 mm, Zabul 0 mm, and Zaranj 2.5 mm, the highest precipitation in this region has been recorded in Lashkargah district of Hilmand province which is 23 mm. In South Eastern region Tera has received 3.5 mm, Khost 10 mm, and Urgan 8 mm. In western region Farah has received 11 mm, Hirat 17.6 mm, Qala-e-Naw 10 mm and Shindand 27 mm the highest precipitation in the respected region has been recorded in Shindand district of Hirat province which is 27 mm. In conclusion we can say that, rainfall has two extremes the high extreme has occurred in Faizabad center of Badakhshan province which is 37.5 mm during the month of January 2014, and the lowest extreme has occurred in Aibak district of Samangan province which is 1 mm during the month of January 2014. For more information regarding the precipitation for the month of January 2014 please, refer to the below table.

Station Name	January			Deviation	Comparison	Prediction
	2013	2014	LTA			
Bamyan	12	0	6.9	-6.9	Bellow Normal	Dryness
Nili	33.7	6	9.8	-3.8	Bellow Normal	Dryness
Dashtak	25	0	68.6	-68.6	Bellow Normal	Dryness
Logar	15	8	34.8	-26.8	Bellow Normal	Dryness
Paghman	43	3	62.1	-59.1	Bellow Normal	Dryness
Sarobi	22	2	44.4	-42.4	Bellow Normal	Dryness
Mahmood Raqi	34	7	58.9	-51.9	Bellow Normal	Dryness
Rainfall decrease in 2014 with respect to 2013						
Asmar	16	9	82.9	-73.9	Bellow Normal	Dryness
Ghazi Abad	3	0	12.9	-12.9	Bellow Normal	Dryness
Mehterlam	5.6	3	24.3	-24.3	Bellow Normal	Dryness
Dow Ab	31	0	89.5	-89.5	Bellow Normal	Dryness
Baghlan	23	0.4	41.3	-40.9	Bellow Normal	Dryness
Faizabad	39.5	37.5	45.4	-7.9	Bellow Normal	Dryness
Rainfall decrease in 2014 with respect to 2013						
Taluqan	52	5	77.8	-72.8	Bellow Normal	Dryness
Aibak	10.5	1	44.1	-43.1	Bellow Normal	Dryness
Dara-e-soof	22	4	52.3	-48.3	Bellow Normal	Dryness
Jawzjan	35	10.7	40.8	-30.1	Bellow Normal	Dryness
Mazar	24	16	28.9	-12.9	Bellow Normal	Dryness
Sari pul	28	10	89	-79	Bellow Normal	Dryness
Kandahar	0	17	49.1	-32.1	Bellow Normal	Dryness
Lashkargah	0	23	27	-4	Bellow Normal	Dryness
Uruzgan	18	14.5	53.3	-38.8	Bellow Normal	Dryness
Rainfall decrease in 2014 with respect to 2013						
Zaranj	3	2.5	30.3	-27.8	Bellow Normal	Dryness
Tera	20	3.5	40.4	-36.9	Bellow Normal	Dryness
Zabul	0	0	43	-43	Bellow Normal	Dryness
Khost	6.2	10	25.7	-15.7	Bellow Normal	Dryness
Sarady	10	4	37.8	-33.8	Bellow Normal	Dryness
Urgan	13	8	45.3	-37.3	Bellow Normal	Dryness
Cheghcheran	1	1	35.1	-34.1	Bellow Normal	Dryness
Farah	4	11	22.2	-11.2	Bellow Normal	Dryness
Hirat	17.3	17.6	49.6	-32	Bellow Normal	Dryness
Qala-e-naw	32	10	56.6	-46.6	Bellow Normal	Dryness
Shindand	24	27	43.4	-16.4	Bellow Normal	Dryness
Rainfall decrease in 2014 with respect to 2013						

Data Source: Agromet Network

Rainfall Graphs for the Month of January 2014

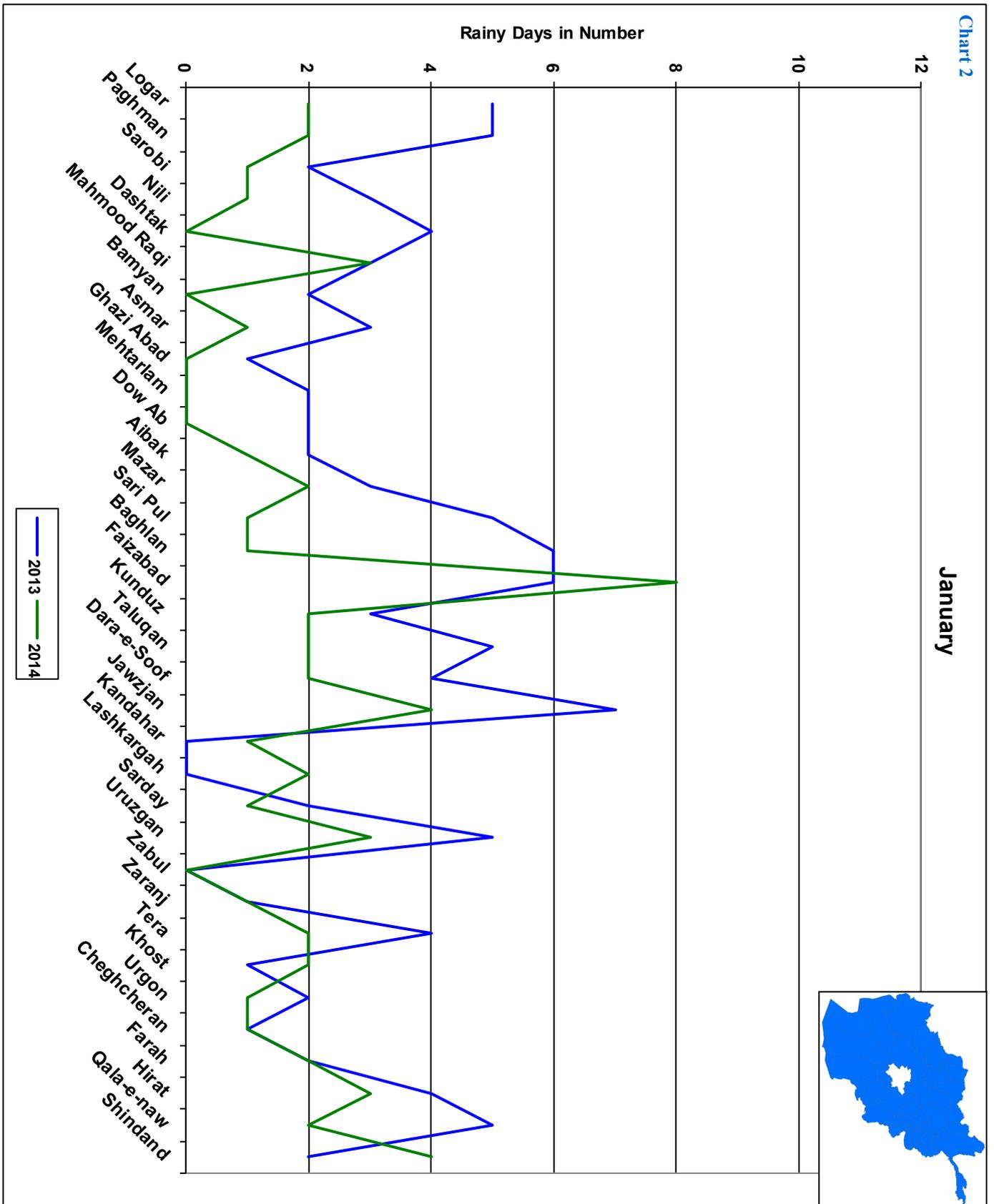


Rainy Days

Based on the bellow table, the areas of Faizabad, Kunduz, Taluqan, Dara-e-Soof, Jawzjan, Sarday, Uruzgan, Kandahar, Lashkargah, Khost and Shindand are having higher number of rainy days during the month of January 2014, compared to the same month in 2013. The areas such as, Logar, Paghman, Sarubi, Nili, Dashtak, Bamyan, Asmar, Ghazi Abad, Mehtarlam, Dow Ab, Aibak, Mazar -i- Sharif, Sari Pul, Baghlan, Tera, Urgon, Hirat and Qala-e-Now are the areas with the least number of rainy days in January 2014, in comparison to the same month of 2013. The areas such as Mahmood Raqi, Zabul, Zaranj, Cheghcheran and Farah are the areas that had equal rainy days in comparison to the same month of last year.

No	Station Name	January		Comparison Prediction with respect to (2012) Table 2
		Rainy Days		
		2013	2014	
1	Dashtak	4	0	Dryness
2	Logar	5	2	Dryness
3	Paghman	5	2	Dryness
4	Sarobi	2	1	Dryness
5	Bamyan	2	0	Dryness
6	Mahmood Raqi	3	3	No Change
7	Nili	3	1	Dryness
8	Ghaziabad	1	0	Dryness
9	Asmar	3	1	Dryness
10	Mehterlam	2	1	Dryness
11	Dow Ab	2	0	Dryness
12	Aibak	2	1	Dryness
13	Mazar	3	2	Dryness
14	Saripul	5	1	Dryness
15	Baghlan	6	1	Dryness
16	Faizabad	6	8	No Dryness
17	Kunduz	3	2	Dryness
18	Taluqan	5	2	Dryness
19	Dara-e-soof	4	2	Dryness
20	Jawzjan	7	4	Dryness
21	Zabul	0	0	No Change
22	Kandahar	0	1	No Dryness
23	Lashkargah	0	2	No Dryness
24	Sarday	2	1	Dryness
25	Uruzgan	5	3	Dryness
26	Zaranj	1	1	Dryness
27	Tera	4	2	Dryness
28	Khost	1	2	Dryness
29	Urgon	2	1	Dryness
30	Cheghcheran	1	1	No Change
31	Farah	2	2	No Change
32	Hirat	4	3	Dryness
33	Qala-e-naw	5	2	Dryness
34	Shindand	2	4	No Dryness

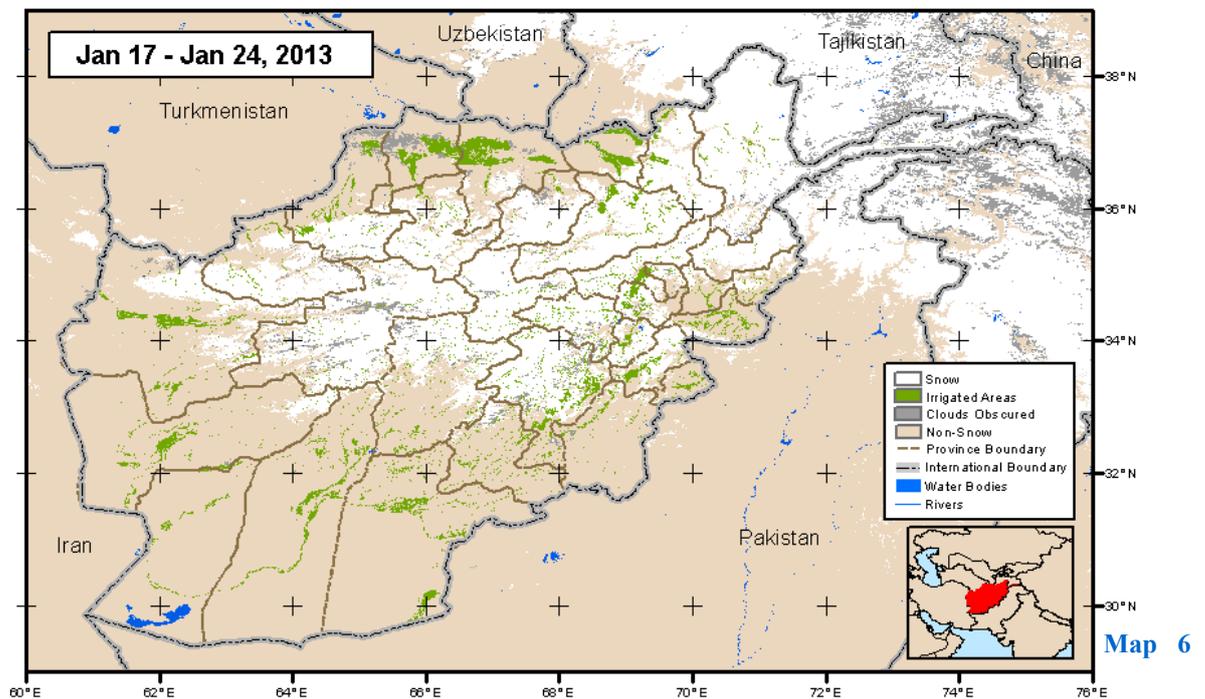
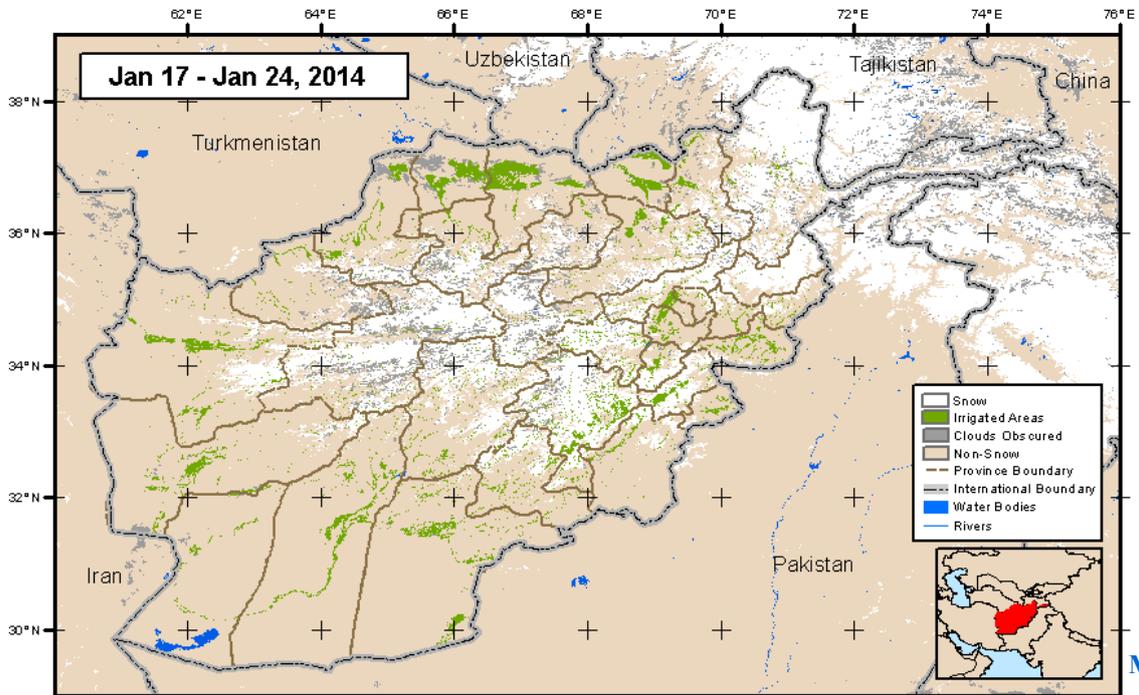
Rainy Days for the Month of January 2014



Comparison of rainy days for the month of January 2014, with the same month of last year (Chart 2) shows significant decrease of rainy days

compared to the same month of last year aside from few parts of the South and Southeast.

**MODIS 8-day Snow Cover Extent
Current Period vs. Previous Year**

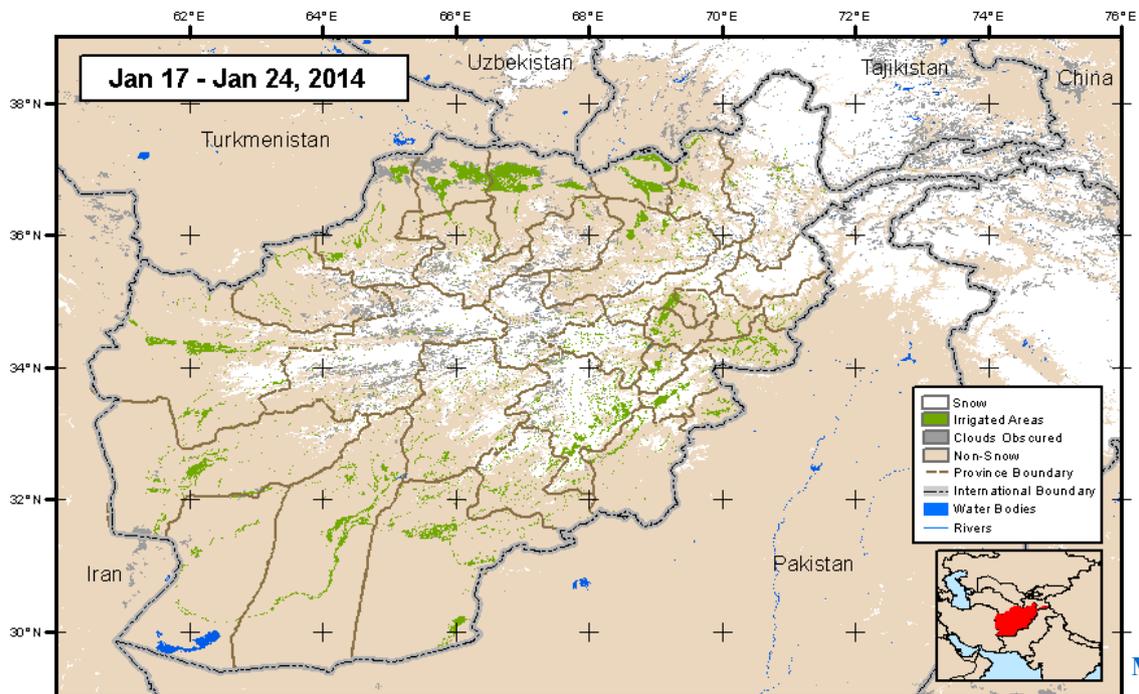


Map created by USGS/EROS

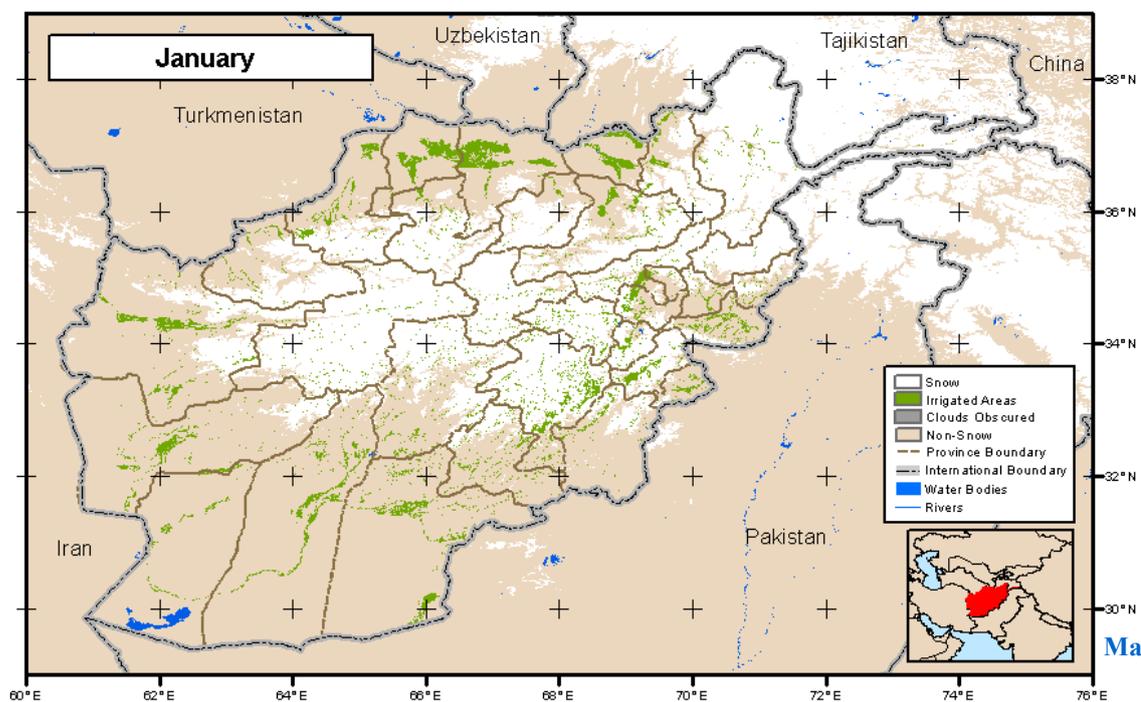


Comparison of snow extent for the period of (January 17 – January 24) 2014 with the same period in 2013 (Map 5 - 6) shows significant decrease in snow extent during the above mentioned period of time over the same period of time in 2013.

**MODIS 8-day Snow Cover Extent
Current Period vs. Monthly Average (2001-2012)**



Map 7



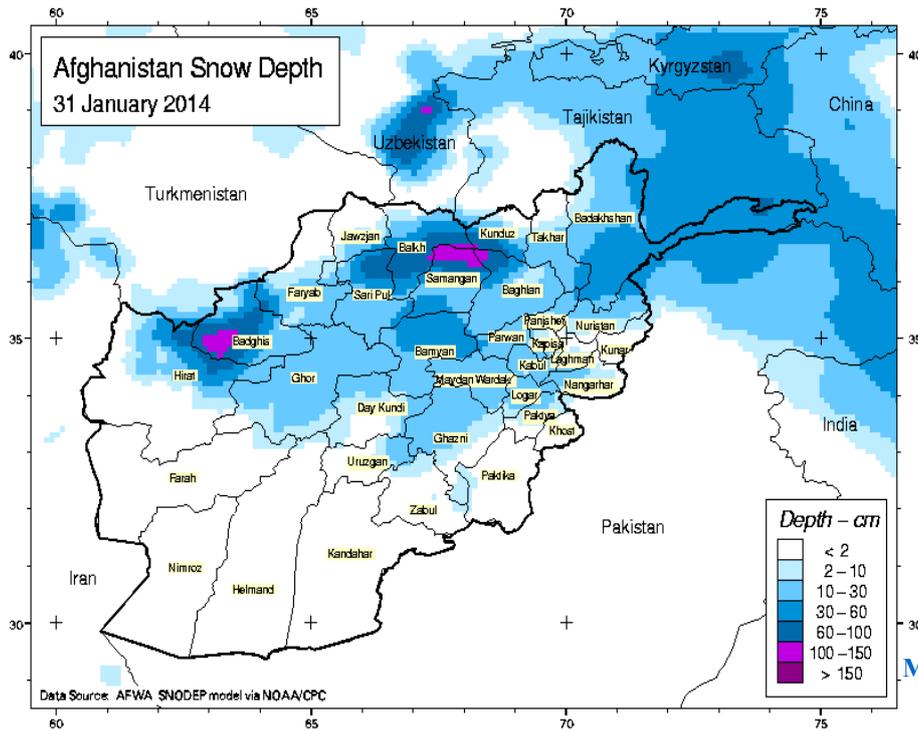
Map 8

Map created by USGS/EROS



Comparison of snow extent for the month of January 2014, with the same month of long term average (Map 7-8) shows significant decrease in snow extent during the month of January 2014, over the same month of long term average.

Afghanistan Snow Depth for month of January 2014



Map 9

Map (9) shows snow depth for the end of January 2014. As map (9) shows the snow depth has been recorded from 100 to 150 cm in some part of the

North and Northwestern, and 30 – 60 cm in most parts of Central Highlands.



Data Source: USGS

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